Datasheet

HP mt46 Mobile Thin Client

The beautifully designed, cloud-ready[2] mobile thin client.

Power your enterprise with the durable, powerful, and stunning HP mt46 Mobile Thin Client. This thin client delivers premium experiences with comfortable design, reliable enterprise security and serviceability, and productive connectivity.

- Screen Size: 14” diagonal

Work comfortably all around the office.

- Enjoy this light comfortable device, you can open with one-hand, and a quiet click pad and keyboard with rubber dome keys—perfect for working around the office. Optional low-power panels or bright panels[3] provide a powerful visual experience.

Work goes with you, data doesn't.

- Get data and device security for your cloud[2] computing experience, around the office, with a self-healing BIOS from HP Sure Start Gen6[4]. Deter remote camera hacking with the optional HP Privacy Camera[5,19] and visual hacking with optional HP Sure View Reflect.[6]

Effortless collaboration and conferencing.

- Expand your reach with long battery life, and optional 4G LTE[7,19] for simple and fast connectivity. Collaborate easily face-to-face or virtually[2], with crisp Audio by Bang & Olufsen, 88-degree field of view webcams, and a 170-degree hinge opening.

- Get through your deadline-driven, multi-tasking day using the latest AMD Ryzen™ 3 Pro processor.[8]
- Work around the office without worry with a thin client that undergoes MIL-STD 810H testing and has an optional backlit keyboard that resists spills up to 350 ml (12 oz) of water.[9,10,11]
- Cover more ground and improve connectivity while on Wi-Fi® with HP Extended Range Wireless LAN that allows greater distance from transmission point and fast data throughput at shorter ranges.[12]
- The portability of your PC and the reliability of a fast connection determines where you can work. Get a fast and reliable connection in dense wireless environments with gigabit-speed Wi-Fi 6.[13,14]
- Work indoors or outdoors with the optional 1000-nit ultrabright, anti-glare, three-sided micro-edge, 14-inch diagonal display with an ambient light sensor.[15]
- Servicing your device is fast and simple with the easy-to-remove service panel, self-capturing screws, and accessible components.
- Spend more time getting your work done instead of looking for an outlet with long battery life, and optional HP Fast Charge, which recharges the battery to 90% in 90 minutes.[16]
- Quickly transition to your desk, displays, and accessories with single-cable connectivity to an HP USB-C® dock.[17,19]
- Enjoy premium virtualization with support for ISV partners including Citrix®, VMware®, and Microsoft with features like an integrated browser, single sign-on support, and multimedia redirection.[1,2]
- Choose the Linux®-based HP ThinPro for an OS that limits virus threats. It also has a locked file system that deters unauthorized updates, a built-in firewall, and customizable user permissions.
- Firmware attacks can completely devastate your PC. Stay protected with HP Sure Start Gen6, the self-healing BIOS that automatically recovers itself from attacks or corruption.

HP mt46 Mobile Thin Client Specifications Table

Available Operating Systems	Windows 10 IoT Enterprise 2019 LTSC[1] HP ThinPro[2] HP Smart Zero Core[2]
Processor family	AMD Ryzen™ PRO processor
Browser	Internet Explorer 11
Available Processors[3,4,5]	AMD Ryzen™ 3 PRO 4450U with Radeon™ Graphics (2.5 GHz base clock, up to 3.8 GHz max boost clock, 4 MB L3 cache, 4 cores)
Chipset	SoC
Maximum memory	8 GB DDR4-3200 SDRAM (2 x 4 GB); 4 GB DDR4-3200 SDRAM (1 x 4 GB) [12,24] Transfer rates up to 3200 MT/s.
Memory slots	2 SODIMM
Internal storage	up to 128 GB SATA3 TLC M.2[11]
Display	35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, anti-glare, 1000 nits, 72% NTSC, HP SureView integrated privacy screen; 35.6 cm (14") diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 250 nits, 45% NTSC [2,6,7,8,9,10]
Available Graphics	Integrated: AMD Radeon™ Vega Graphics[6]
Protocols	Citrix® ICA/HDX; Microsoft RFX/RDP; VMware Horizon® View™ through RDP/PCoIP, and Blast Extreme (Protocols are dependent on operating system installed.)
Audio	Audio by Bang & Olufsen, 2 Integrated Stereo Speakers, Integrated multi array microphones
Expansion slots	1 SC
Ports and Connectors	Left side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging) Right side: 1 AC power; 1 HDMI 2.0; 1 SIM card slot; 2 SuperSpeed USB Type-C® 10Gbps signaling rate (Alt Mode)[30] Optional Ports: 1 Smartcard reader
Input devices	HP Premium Keyboard – spill-resistant, full size, optional backlit keyboard with drain and optional DuraKeys[2]; Glass ClickPad with image sensor, multi-touch gesture support, taps enabled; Microsoft Precision Touchpad Default Gestures Support[2]; Hall Sensor
Communications	WLAN: Intel® AX200 Wi-Fi 6 (2x2) and Bluetooth® 5 combo, non-vPro® (Supporting Gigabit file transfer speeds); Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo [13]; WWAN: Intel® XMM™ 7360 LTE-Advanced Cat 9 [14];
Camera	720p HD IR camera; 720p HD camera [6,7,17,21,34]
Software	HP Device Manager; HP ThinUpdate; Power On Authentication; Secure Erase; Absolute Persistence Module; Preboot Authentication; HP Native Miracast Support; HP Noise Cancellation Software; HP BIOS Config Utility; BIOS Update via Network; HP Connection Optimizer; HP Hotkey Support; HP BIOSphere Gen6[18,19,20,35]
Security management	NFC Antenna; TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); Windows Defender; USB enable/disable (via BIOS); Power-on password (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; HP Sure Start Gen6; Pre-boot authentication[22,23,25,35]
Fingerprint reader	Fingerprint reader (select models)
Power	HP Smart 45 W External AC power adapter; HP Smart 65 W EM External AC power adapter; HP Smart 65 W External AC power adapter; HP 45 W 2-pong External AC power adapter; HP Smart 65 W USB Type-C™ adapter[26]
Battery type	HP Long Life 3-cell, 53 Wh Li-ion[27,28]
Battery life	Up to 14 hours[29]
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes with 65W AC Adapter
Dimensions	32.33 x 21.45 x 1.79 cm (non-touch); 32.33 x 21.45 x 1.75 cm (touch)
Weight	Starting at 1.34 kg (non-touch); Starting at 1.47 kg (touch) (Weight will vary by configuration.)
Energy efficiency compliance	ENERGY STAR® certified and EPEAT® Gold 2020 registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country.[32,33]
Sustainable impact specifications	Low halogen; TCO 8.0 Certified
Warranty	3 year (3-3-0) limited warranty and service offering includes 3 years of parts and labor. Terms and conditions vary by country. Certain restrictions and exclusions apply.
Display size (diagonal, metric)	35.56 cm (14")

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Accessories and services (not included)

HP EliteDisplay E243 60.45 cm (23.8") Monitor

Style meets substance in a strikingly modern business display crafted for optimal viewing, productivity, and ergonomics. The HP EliteDisplay E243 60.45 cm (23.8") Monitor has a 3-sided micro-edge bezel for seamless multi-display tiling and 4-way adjustability so you can comfortably power through your day. The thin client that offers a more secure and reliable environment, with extensive management capabilities in a mobile device.
Product number: 1FH47AA

HP Thunderbolt Dock 120W G2

Reinvent docking and boost productivity with our most versatile Thunderbolt™ dock, the small, sophisticated HP Thunderbolt Dock G2. Designed for workspace flexibility and network manageability[1], it delivers USB-C™[2] device connectivity and optional integrated audio.[3] The thin client that offers a more secure and reliable environment, with extensive management capabilities in a mobile device.
Product number: 2UK37AA

HP Slim Wireless Keyboard and Mouse

Boost productivity and maximize your workspace with the stylish and compact HP Slim Wireless Keyboard and Mouse, designed to complement the 2015 class of HP Business PCs. The thin client that offers a more secure and reliable environment, with extensive management capabilities in a mobile device.
Product number: T6L04AA

HP 5 year Next Business Day Onsite Hardware Support for Notebooks

Receive 5 years of next business day onsite HW support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.
Product number: UK718E (HP 5 year Next Business Day Onsite Hardware Support for Notebooks), UK716E (HP 4 year Next Business Day Onsite Hardware Support for Notebooks), UK703E (HP 3 year Next Business Day Onsite Hardware Support for Notebooks)

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Messaging Footnotes

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
[2] Internet access required and sold separately.
[3] Optional feature that must be configured at time of purchase.
[4] HP Sure Start Gen6 available on select HP PCs.
[5] HP Privacy Camera only available PCs equipped with HD or IR camera and must be installed at the factory.
[6] HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
[7] WWAN is an optional feature, requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. 4G LTE not available on all products, in all regions.
[8] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
[9] MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
[10] Optional feature that must be configured at time of purchase.
[11] HP Total Test Process testing is not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
[12] Based on internal testing vs. previous generation product with 802.11ac wireless LAN module.
[13] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices.
[14] Wi-Fi® supporting gigabit speeds is achievable with Wi-Fi 6 (802.11ax) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
[15] Optional feature that must be configured at time of purchase.
[16] Optional feature that must be configured at time of purchase. Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode, when used with the power adapter provided with the mobile thin client, and no external devices are connected. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
[17] Cable and dock sold separately.
[18] HP Sure Start Gen6 is available on select HP PCs.
[19] Not all features or options are available with HP ThinPro OS.

Technical Specifications Footnotes

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
[2] Display Touch functionality is limited to single and double tap. Touchpad functionality is limited to single and double click, two finger tap, and two finger slide. Camera IR feature does not work on HP ThinPro/HP Smart Zero.
[3] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
[4] Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
[5] In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.
[6] HD content required to view HD images.
[7] Sold separately or as an optional feature.
[8] Resolutions are dependent upon monitor capability, and resolution and color depth settings.
[9] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
[10] Touch capabilities are limited on HP ThinPro OS.
[11] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
[12] Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
[13] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Wi-Fi supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
[14] WWAN module is an optional feature, requires factory configuration and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
[17] Internet access required.
[18] HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.
[19] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
[20] Absolute Persistence Module: Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/ computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
[21] IR not available on ThinPro
[22] Windows Defender Opt in and internet connection required for updates.
[23] Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).re TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
[24] 4GB option is only available on HP ThinPro and HP Smart Zero OS.
[25] HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability.
[26] Availability may vary by country.
[27] Battery is internal and not replaceable by customer. Serviceable by warranty.
[28] Supports HP Fast Charge with 65W AC Adapter. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
[29] Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.
[30] SIM slot is not user accessible without WWAN configuration.
[31] HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.
[32] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.
[33] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
[34] Windows Hello not available on HP ThinPro and HP Smart Zero OS.
[35] HP Native Miracast not supported on HP ThinPro and HP Smart Zero; HP Noise Cancellation not supported on HP ThinPro and HP Smart Zero; Fingerprint Reader, not supported on HP ThinPro and HP Smart Zero. TPM 2.0 runs with no functionality. Customers can enable TPM 2.0 if they have a custom application that can locate the TPM chip.

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